XXIII. *Aſtronomical Obſervations made by* Samuel Holland *Eſquire, His Majeſty's Surveyor General of Lands for the Northern Diſtrict of North America, for aſcertaining the Longitude of ſeveral Places in the ſaid Diſtrict. Communicated by the Aſtronomer Royal.*

Redde, Jan. 20, 1774.

KITTERY POINT, in the province of MAIN, in PISCATAQUA harbour.

Latitude { by reſult of repeated obſervations, of ☉ and fixed ✱'s, made with BIRD's aſtronomical quadrant, } 43° 4′ 27″ N.

Obſerved, with DOLLOND's 12 feet refracting teleſcope,

Immerſion and Emerſions of ♃'s ſatellites as follow,

1771		Apparent time. h ′ ″
April 11th,	an immerſion of the 1ſt, at	15 43 30
27th,	ſame ſame	14 1 43
May 4th,	ſame ſame,	15 55 54

The VARIATION of the COMPASS at this place, is 7° 46′ Weſt.

PORTSMOUTH,

The Royal Society is collaborating with JSTOR to digitize, preserve, and extend access to *Philosophical Transactions (1683-1775).* www.jstor.org

PORTSMOUTH, province of NEW HAMPSHIRE.

Latitude { by reſult of repeated obſervations, of ☉ and fixed ✱'s, made with BIRD's aſtronomical quadrant, } 43° 4′ 15″ N.

Obſerved, with DOLLOND's 12 feet refracting teleſcope, Immerſions and Emerſions of 4's ſatellites as follow,

1772,			Apparent time. h ′ ″
Sept. 6th,	an emerſion of the	2d, at	11 9 20
18th,	ſame	1ſt,	9 42 35
Oct. 11th,	ſame	ſame,	10 5 4
Nov. 3d,	ſame	ſame,	10 23 54
9th,	ſame	2d,	10 51 39
12th,	ſame	1ſt,	6 48 1
* 19th,	ſame	ſame,	8 42 44
23d,	immerged entirely,	3d	6 8 6
ſame,	began to emerge,	ſame,	9 28 14
Dec. 4th,	an emerſion,	2d,	7 50 0
5th,	ſame,	1ſt,	6 57 44

The VARIATION of the COMPASS at this place is 7° 48′ Weſt.

All theſe obſervations were made by time kept by GRAHAM's time-piece, with a gridiron pendulum, rectified occaſionally by equal altitudes of the Sun, corrected agreeably to the tables of M. DE LA LANDE, for the alteration of the declination in the intervals of correſponding obſervations.

SAMUEL HOLLAND.

* This ſatellite in emerging was in conjunction with another, which occaſioned ſuch a deception as to render this obſervation uncertain about 20 ſeconds ſooner than what is marked here.

XXIV. *Obſer-*